Appl. No. 10/521,135 Amendment/Response Reply to non-Final Office action of 11 January 2006

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (original) A metal halide lamp comprising a substantially cylindrical discharge vessel (3) having an internal diameter Di < 2.0 mm and filled with an ionizable filling, wherein two electrodes are present at a mutual distance EA for maintaining a discharge in the discharge vessel, wherein the filling comprises an inert gas such as Xe having a pressure at room temperature between 5 and 25 bar, and an ionizable salt, characterized in that said ionizable salt is selected from the group comprising PrI₃, NdI₃ and LuI₃.
- 2. (original) A lamp according to claim 1, wherein said ionizable salt further comprises NaI, and wherein the molar ratio $NaI/(PrI_3 + NdI_3 + LuI_3)$ lies between 1.0 and 10.3.
- 3. (original) A lamp according to claim 2, wherein the molar ratio NaI/PrI_3 lies between 2.3 and 10.3, preferably between 3.0 and 5.7, and more preferably is approximately 3.5.
- 4. (previously presented) A lamp according to claim 1, wherein the amount of PrI_3 in the discharge vessel is between 10 and 335 μ mol/cm³, preferably between 25 and 160 μ mol/cm³, more preferably approximately 50 μ mol/cm³.
- 5. (original) A lamp according to claim 2, wherein the molar ratio NaI/NdI_3 lies between 3.0 and 6.7, preferably between 3.6 and 4.8, and more preferably is approximately 4.2.

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- 6. (previously presented) A lamp according to claim 1, wherein the amount of NdI_3 in the discharge vessel is between 8 and 301 μ mol/cm³, preferably between 30 and 167 μ mol/cm³, more preferably approximately 45 μ mol/cm³.
- 7. (original) A lamp according to claim 2, wherein the molar ratio NaI/LuI_3 lies between 1.0 and 3.2, preferably between 1.2 and 1.8, and more preferably is approximately 1.4.
- 8. (previously presented) A lamp according to claim 1, wherein the amount of LuI_3 in the discharge vessel is between 15 and 414 μ mol/cm³, preferably between 27 and 230 μ mol/cm³, more preferably approximately 69 μ mol/cm³.
- 9. (previously presented) A lamp according to claim 1, wherein Di < 1.5 mm.
- 10. (previously presented) A lamp according to claim 1, wherein EA lies between 3 mm and 7 mm.
- 11. (previously presented) A lamp according to claim 1, wherein the discharge vessel has a ceramic wall.
- 12. (previously presented) A lamp according to claim 1, wherein the discharge vessel is surrounded by a gas-filled outer bulb.
- 13. (previously presented) A lamp according to claim 1, wherein the lamp power lies between 20 W and 40 W.
- 14. (new) A metal halide lamp comprising a substantially cylindrical discharge vessel (3) having an internal diameter Di C:\PROFESSIONAL\PhilipsAMDS2006\PHNL020674amd.doc

- < 2.0 mm and filled with an ionizable filling, wherein two electrodes are present at a mutual distance EA for maintaining a discharge in the discharge vessel, wherein the filling comprises an inert gas such as Xe having a pressure at room temperature between 5 and 25 bar, and an ionizable salt selected from the group comprising PrI_3 , NdI_3 and LuI_3 , wherein the amount of NdI_3 in the discharge vessel is between 8 and 301 μ mol/cm³, preferably between 30 and 167 μ mol/cm³, more preferably approximately 45 μ mol/cm³.
- 15. (new) A metal halide lamp comprising a substantially cylindrical discharge vessel (3) having an internal diameter Di < 2.0 mm and filled with an ionizable filling, wherein two electrodes are present at a mutual distance EA for maintaining a discharge in the discharge vessel, wherein the filling comprises an inert gas such as Xe having a pressure at room temperature between 5 and 25 bar, and an ionizable salt selected from the group comprising PrI₃, NdI₃ and LuI₃, wherein said ionizable salt further comprises NaI, and wherein the molar ratio NaI/(PrI₃ + NdI₃ + LuI₃) lies between 1.0 and 3.2, preferably between 1.2 and 1.8, and more preferably is approximately 1.4.
- 16. (new) A metal halide lamp comprising a substantially cylindrical discharge vessel (3) having an internal diameter Di < 2.0 mm and filled with an ionizable filling, wherein two electrodes are present at a mutual distance EA for maintaining a discharge in the discharge vessel, wherein the filling comprises an inert gas such as Xe having a pressure at room temperature between 5 and 25 bar, and an ionizable salt selected from the group comprising PrI₃, NdI₃ and LuI₃, wherein c:\PROFESSIONAL\PhilipsAMDS2006\PHNLO20674amd.doc

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the amount of LuI $_3$ in the discharge vessel is between 15 and 414 μ mol/cm 3 , preferably between 27 and 230 μ mol/cm 3 , more preferably approximately 69 μ mol/cm 3 .